

8-6-85 SER# 7100



## CW CRYSTAL FILTER YG-455C

### INSTALLATION PROCEDURE

#### Specifications

**Center frequency:** 455.7kHz  
**Passband width:** 500Hz at -6dB  
**Attenuation bandwidth:** 820 Hz at -60dB  
**Guaranteed attenuation:** Better than 80dB

#### • TS-830S

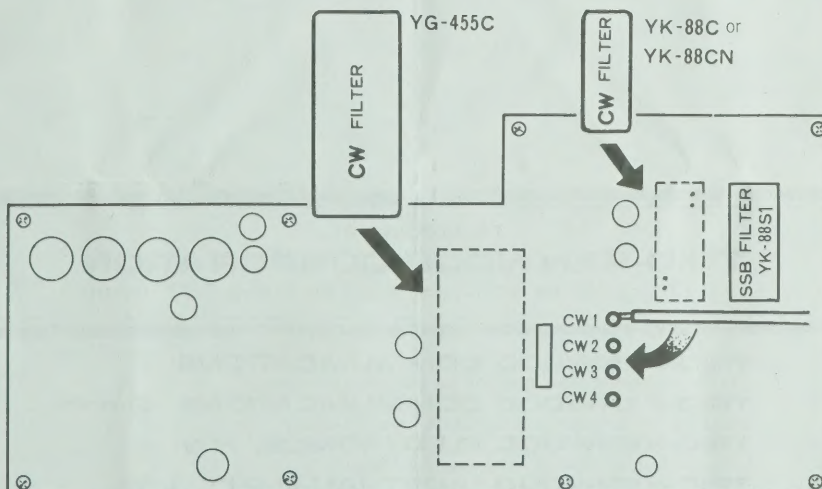
When installing the YG-455C crystal filter in the TS-830S, proceed as follows:

1. Using a number 2 Phillips screwdriver, remove the top cover (eight screws). Unplug the speaker and set the cover aside.
2. Remove the bottom cover (eight screws).
3. Remove the eight screws holding the IF unit X48-1290-00 and swing the printed-circuit board over.
4. Using a 45-W (or less) soldering pencil, clear the six holes for the filter, if they are filled with solder.
5. Install the filter into its position on the IF unit. Tighten the two nuts, and solder the four input and output pins to the circuit boards.

Solder sparingly, and heat the connections only long enough to insure a good solder joint. Don't overheat the filter or circuit board.

6. Carefully inspect your soldering. Be certain that all pins are actually soldered, and that you have not soldered across any spots on the board or between any of the pins on the filter. Clip the pins flush to the board.
7. Replace the IF unit. Make certain no wires will be pinched underneath the board. Replace the eight screws.
8. Move the connector as illustrated from CW1 to CW2 ~ CW4.
9. Reinstall the bottom cover. Reconnect the speaker lead, and reinstall the top cover.
10. Apply power and verify your work. Filter installation is now complete.

455 kHz	8.83 MHz	Terminal
YG-455C	When a CW filter is not installed.	CW <sub>3</sub>
YG-455C	When YK-88C or YK-88CN is installed.	CW <sub>4</sub>



Installing the Accessory CW Filter

## • R-2000

#4100

When installing the YG-455C crystal filter in the R-2000, proceed as follows:

1. Using a No. 2 Phillips screwdriver, remove the bottom cover (eight screws).
2. Remove the ten screws holding the IF unit X55-1430-00 and carefully unplug the five connectors at the side and rear, as shown in Fig. 2. Swing the printed-circuit board forward.
3. Using a 45-W (or less) soldering pencil, clear the six holes for the filter, if they are filled with solder.
4. Install the filter into its position on the IF unit. Tighten the two nuts, and solder the four input and output pins to the circuit boards. Solder sparingly, and heat the connections only long enough to insure a good solder joint. Don't overheat the filter or circuit board.
5. Carefully inspect your soldering. Be certain that all pins are actually soldered, and that you have not soldered across any spots on the board or between any of the pins on the filter. Clip the pins flush to the board.
6. Replace the IF unit. Make certain no wires will be pinched underneath the board. Replace the ten screws and 5 connectors.
7. Reinstall the bottom cover.
8. Apply power and verify your work. Filter installation is now complete.

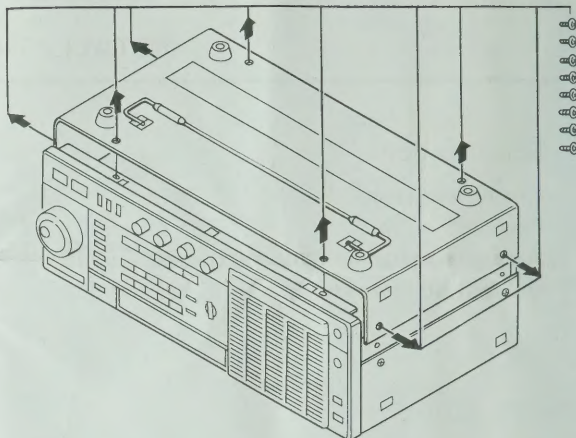


Fig. 1 Removal of Bottom

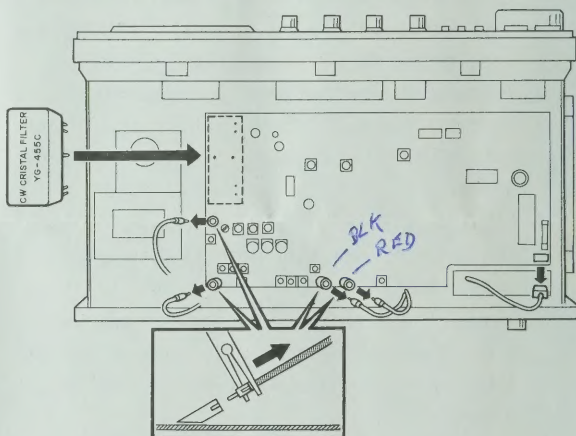


Fig. 2 Bottom View

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